

LA-UR-02-5713

NMCRIS Activity No. 79974

**CERRO GRANDE
FIRE ASSESSMENT PROJECT:
An Assessment of the Impact of the
Cerro Grande Fire on Cultural Resources at
Los Alamos National Laboratory, New Mexico**

Cultural Resource Report No. 211

Los Alamos National Laboratory

**November 2002
Survey No. 818**

Prepared for the Department of Energy
Los Alamos Site Office

prepared by

**Jennifer E. Nisengard
Brian C. Harmon
Kari M. Schmidt
Alan L. Madsen
W. Bruce Masse
Ellen D. McGehee
Kari L. M. Garcia
John Isaacson**

and

Jeffery S. Dean (Laboratory of Tree Ring Research, Arizona)

Archaeologists

RRES-ECO Cultural Resources Management Team
Risk Reduction and Environmental Stewardship Division
LOS ALAMOS NATIONAL LABORATORY

Contents

List of Figures	v
List of Tables	vii
ACKNOWLEDGMENTS	ix
ABSTRACT	1
Chapter 1. INTRODUCTION (Masse and Nisengard)	3
Chapter 2. PHYSICAL AND ENVIRONMENTAL SETTING (Madsen)	7
Geologic History.....	8
Soils	9
Climate	10
Plant Communities	11
Faunal Communities.....	12
Chapter 3. CULTURE HISTORY OVERVIEW (Madsen and Nisengard).....	15
The Cultural Sequence of the Pajarito Plateau.....	16
Paleoindian Period: 9500 BC to 5500 BC.....	16
Archaic Period: 5500 BC to AD 600	17
Developmental Period: 600 to 1200.....	17
Coalition Period: 1200 to 1325	18
Classic Period: 1325 to 1600	18
Spanish Colonial Period: 1600 to 1821.....	18
Mexican Period: 1821 to 1846	20
United States Territorial: 1846 to 1912.....	20
Statehood to World War II Period: 1912 to 1945	21
Homestead Period: 1890s to 1942.....	21
Recent Period: 1945 to Present	21
Manhattan Project Period: 1942 to 1946	22
Early Cold War Period: 1946 to 1956	22
Late Cold War Period: 1956 to 1990	22
Chapter 4. THE CERRO GRANDE FIRE (Masse and Harmon).....	23
Chapter 5. DATA COLLECTION METHODS (Harmon, Nisengard, Schmidt, and Masse)	27
Field Procedures	27
Archaeological Site Types	31
Chapter 6. GENERAL RESULTS OF THE CERRO GRANDE FIRE ASSESSMENT PROJECT (Harmon, Schmidt, Nisengard, and Masse)	35
A Summary of Fire Effects to all Ancient Cultural Resources at LANL	36
Chapter 7. DESCRIPTION OF IMPACTED RESOURCES IN THE ENGINEERING SCIENCES AND APPLICATIONS DIVISION (Madsen)	41
Background for the ESA Assessment.....	41
Assessment of Fire-Impacted Prehistoric and Temporally Unplaced Sites in ESA.....	41
TA-11	46
TA-16.....	46
TA-37.....	56
Non-Fire Related Impacts to Prehistoric and Temporally Unplaced Sites	58
Recommended Treatments for Prehistoric and Temporally Unplaced Sites	59
Chapter 8. DESCRIPTION OF IMPACTED CULTURAL RESOURCES LOCATED AT DYNAMIC EXPERIMENTATION DIVISION (Schmidt).....	61
Background for the DX Assessment.....	61
Cultural Resources at DX	66
General Impacts of the Cerro Grande Fire	67
Assessment of Fire-Impacted Prehistoric and Temporally Unplaced Sites	69
TA-8	70
TA-9.....	70
TA-14.....	71
TA-15.....	73
TA-36.....	80

TA-40.....	81
TA-67.....	81
TA-69.....	84
Non-Fire Related Impacts to Prehistoric and Temporally Unplaced Sites	85
Recommended Treatments for Prehistoric/Temporally Unplaced Sites in DX	86
Chapter 9. DESCRIPTION OF IMPACTED CULTURAL RESOURCES LOCATED AT FACILITY	
MANAGEMENT UNIT 80 (Nisengard)	87
Background for FMU-80 Assessment	87
Site Descriptions for Prehistoric/Temporally Unplaced Sites in FMU-80.....	94
TA-5.....	94
TA-8.....	98
TA-16.....	99
TA-18.....	99
TA-46.....	99
TA-49.....	100
TA-51.....	111
TA-52.....	112
TA-53.....	113
TA-60.....	114
TA-66.....	117
Fire Impacts to Prehistoric/Temporally Unplaced Sites in FMU-80	117
Non-Fire Related Impacts to Prehistoric/Temporally Unplaced Sites in FMU-80	117
TA-5.....	122
TA-49.....	122
TA-52.....	123
TA-60.....	123
TA-66.....	123
Recommended Treatments for Prehistoric/Temporally Unplaced Sites in FMU-80	123
Chapter 10. DESCRIPTION OF IMPACTED RESOURCES IN THE RENDIJA CANYON TRACT	
(Harmon).....	127
Background for the Rendija Canyon Tract Assessment	127
Assessment of Prehistoric and Temporally Unplaced Sites.....	132
Fire-Impacted Prehistoric and Temporally Unplaced Sites.....	132
New Sites	140
Non-Fire Related Impacts to Prehistoric and Temporally Unplaced Sites.....	142
Recommended Treatments for Prehistoric and Temporally Unplaced Sites.....	143
Chapter 11. OVERVIEW OF HOMESTEADS, MANHATTAN PROJECT RESOURCES, AND COLD WAR RESOURCES IMPACTED BY THE CERRO GRANDE FIRE (McGehee, Garcia, Isaacson) ..	145
Introduction	145
Homestead Period (1890–1942).....	145
Manhattan Project (1942–1946)	145
Cold War (1946–1990)	146
Initial Fire Effects	147
General Fire Effects to Homestead Period Properties	147
Post-Fire Flooding	147
Fire Effects to Manhattan Project and Early Cold War Properties	151
Manhattan Project (1942–1946).....	151
TA-14-15	151
V-Site	151
TA-40.....	155
Early Cold War (1946–1956)	155
TA-2.....	155
TA-15	155
TA-16.....	155
Fire Impacts to Minor Buildings and Structures (Post-1963 or Otherwise Exempt from Review)	158
TA-15.....	158

TA-16.....	158
TA-46.....	158
TA-52.....	158
TA-64.....	158
Post-Fire Cultural Resource Management Issues for Fire-Impacted Homesteads and Manhattan Project and Cold War Resources	159
Initial Field Assessment and Mitigation	159
Long-Term Management and Preservation.....	159
Management of the V-Site and Other Manhattan Project Properties	159
Chapter 12. FIELD FIRE ASSESSMENT OF HOMESTEADS AND MANHATTAN PROJECT AND COLD WAR RESOURCES IMPACTED BY THE CERRO GRANDE FIRE (Schmidt, Nisengard, Harmon, Madsen, and Masse)	161
Introduction	161
Specific Fire Effects on Homestead Period Archaeological Sites	161
Homestead Period Fire Effects in Engineering Sciences and Applications Division (ESA)	161
TA-16.....	162
Homestead Period Fire Effects in Dynamic Experimentation Division (DX)	163
TA-6.....	163
TA-8.....	165
TA-9.....	166
TA-14.....	167
TA-15.....	168
TA-22.....	169
TA-40.....	171
Homestead Period Fire Effects in Facilities Management Unit 80 (FMU-80)	172
TA-5.....	172
TA-8.....	173
TA-16.....	174
TA-46.....	174
TA-49.....	174
TA-50 and TA-55	175
TA-60.....	175
TA-69.....	176
Homestead Period Fire Effects in Redija Canyon.....	176
Specific Fire Effects on Manhattan Project and Early Cold War Period Archaeological Sites	178
Manhattan Project and Early Cold War Fire Effects in Engineering Sciences and Applications Division (ESA)	178
TA-16.....	178
Manhattan Project and Early Cold War Fire Effects in Dynamic Experimentation Division (DX).....	179
TA-6.....	179
TA-9.....	182
TA-69.....	182
Manhattan Project and Early Cold War Fire Effects in Facilities Management Unit 80 (FMU-80)	182
TA-69.....	183
Manhattan Project and Early Cold War Fire Effects in Rendija Canyon.....	183
Specific Fire Effects on Historic Period Archaeological Sites of Unknown Affiliation.....	183
Historic Period Undetermined Affiliation Fire Effects in Engineering Sciences and Applications Division (ESA).....	183
TA-16.....	183
Historic Period Undetermined Affiliation Fire Effects in Dynamic Experimentation Division (DX) ...	184
TA-9.....	184
TA-14.....	185
TA-15.....	185
Historic Period Undetermined Affiliation Fire Effects in Facilities Management Unit 80 (FMU-80) ...	186
TA-60.....	186
Historic Period Undetermined Affiliation Fire Effects in Redija Canyon	187

Impacts Observed at Historic Period Archaeological Sites Not Related to the Cerro Grande Fire	187
Recommended Treatments to Minimize Fire-Related Impacts at Historic Period Archaeological Sites.....	188
Chapter 13. ANCESTRAL PUEBLO SITE REHABILITATION (Masse)	191
Chapter 14. MANAGEMENT CONSIDERATIONS (Masse, Harmon, and Nisengard)	195
Lessons Learned	195
Management Strategies.....	196
REFERENCES	199
APPENDIX I. DENDROCHRONOLOGY OF LANL HOMESTEAD SITES IMPACTED BY THE CERRO GRANDE FIRE	207
VOLUME II: FORMS AND LOCATIONAL INFORMATION [Limited Distribution]	Separate Volume

Figures

Figure 1.1 Map of Los Alamos, LANL, and the extent of the Cerro Grande Fire.....	4
Figure 2.1 The distribution of land cover types at LANL	8
Figure 3.1 Distribution of cultural resources and survey areas at LANL	16
Figure 3.2 Site sketches of a Coalition period site (above) and a Classic period site (below)	19
Figure 4.1 Daily progression of the Cerro Grande Fire after it was declared a wildfire on May 5	24
Figure 4.2 The extent of the Cerro Grande Fire and its burn severity	25
Figure 5.1 Mao of areas included in the CGFA Project	28
Figure 5.2 CGFA Project form	30
Figure 5.3 CGFA Project new site recording form	32
Figure 6.1 The effects of the Cerro Grande Fire on masonry structures at LANL	37
Figure 6.2 Fire effects on cavate features at LANL	38
Figure 6.3 Burn intensity and fire effects to masonry structures	39
Figure 7.1 Map of Engineering Sciences and Applications Division (ESA)	42
Figure 7.2 General view of LA 204, looking east-northeast	47
Figure 7.3 View looking south of LA 15858 with B. Vierra	48
Figure 7.4 General view looking east of LA 21370 with J. Nisengard and B. Harmon	50
Figure 7.5 LA 86653, J. Nisengard at the two-room structure impacted by the fire	52
Figure 7.6 General view looking north of LA 86655 with K. Schmidt	53
Figure 7.7 General view of LA 86656, looking south	54
Figure 7.8 General view of LA 136905 after flagging, looking southeast	56
Figure 7.9 LA 4654A; the tree in the center of the rubble mound is recommended for removal	57
Figure 8.1 Map of Dynamic Experimentation Division (DX)	62
Figure 8.2 LA 12654, a one- to three-room structure after the Cerro Grande Fire.....	72
Figure 8.3 LA 136833, T. Knight and B. Harmon (from left to right) at the one- to three-room structure after the Cerro Grande Fire.	73
Figure 8.4 LA 89727, a pueblo roomblock after the Cerro Grande Fire	75
Figure 8.5 LA 89803, a one- to three-room structure after the Cerro Grande Fire.....	76
Figure 8.6 LA 136944, rock pile in the background and a tree recommended for removal.	78
Figure 8.7 LA 89790, an ancient one- to three-room structure after the Cerro Grande Fire.	82
Figure 8.8 LA 89791, B. Vierra at the one- to three-room structure after the Cerro Grande Fire	83
Figure 9.1 Mao of Facilities Management Unit 80 (FMU-80).	88
Figure 9.2 LA 12609B, masonry walled cavate made visible by the burning of trees in the area.....	95
Figure 9.3 LA 16799, one of a series of cavates, this one with snag in front	97
Figure 9.4 LA 4687, fire and non-fire (erosion) impacts to a one- to three-room structure	100
Figure 9.5 LA 4690, a pueblo roomblock impacted by suppression efforts (e.g., vehicle ruts)	101
Figure 9.6 LA 12657A, a pueblo roomblock in a low-burn area, snags pose a threat to the site architecture.....	102
Figure 9.7 LA 12657C, a fire-impacted one- to three-room structure.....	103
Figure 9.8 LA 15862, a one- to three-room structure damaged by suppression activities.....	105
Figure 9.9 LA 15865D, K. Schmiedt at a fire impacted one- to three-room structure with soot and smoke staining and snags	106

Figure 9.10	LA 89760, a one- to three-room structure with a partially burned tree that poses a threat to site masonry.....	109
Figure 9.11	LA 137755, a one- to three-room structure impacted by a low-level burn, the partially burned tree in the center of the fieldhouse poses a threat to the site's integrity.....	110
Figure 9.12	T. Knight, A. Madsen, and M. Hannaford (from left to right) examine LA 35649, a one- to three-room structure that was subject to a severe burn. There are many snags in the immediate area that may pose threats to the site's integrity	111
Figure 9.13	LA 16801, a masonry walled cavate with a snag recommended for removal in the foreground.....	112
Figure 9.14	LA 16805, a one- to three-room structure impacted by a severe burn, removal of the snag in the background of the photograph is recommended	114
Figure 9.15	K. Schmidt, B. Harmon, and B. Vierra (from left to right) at LA 89779, a one- to three-room structure severely impacted by suppression activities; the site boundaries have been cut by a bulldozer.....	115
Figure 9.16	LA 136793, a one- to three-room structure impacted by fire and suppression activities; removal of snags and fencing of the site is recommended	116
Figure 10.1	Map of the Rendija Canyon Tract	128
Figure 10.2	LA 70025, view of a larger fieldhouse, facing north.....	134
Figure 10.3	LA 86607, view of fieldhouse and modern trail, facing north	138
Figure 10.4	LA 135291, view of rock feature, facing east	141
Figure 11.1	LA 21334, the Montoya cabin on Two-Mile Mesa before the Cerro Grande Fire	148
Figure 11.2	The Montoya cabin after the Cerro Grande Fire	148
Figure 11.3	U.S. Forest Service Homestead Era site, LA 12710, the "Line Camp" before the Cerro Grande Fire	149
Figure 11.4	The "Line Camp" after the Cerro Grande Fire	149
Figure 11.5	The Ice House at Anchor Ranch (pre-flood and pre-fire).....	150
Figure 11.6	The Ice House (post-flood and post-fire)	150
Figure 11.7	Artifacts stored at V-site before the Cerro Grande Fire	152
Figure 11.8	Artifacts stored at V-site after the Cerro Grande Fire	152
Figure 11.9	TA-14-5, remaining concrete portion and berm after the Cerro Grande Fire.....	153
Figure 11.10	TA 14-5, rear view of former control room and berm after the Cerro Grande Fire	153
Figure 11.11	TA-16-515 at V-Site before the Cerro Grande Fire	154
Figure 11.12	TA-16-515 after the Cerro Grande Fire.....	154
Figure 11.13	TA-40-72 after the Cerro Grande Fire	155
Figure 11.14	TA-40-73 after the Cerro Grande Fire	156
Figure 11.15	TA-2-4 in Los Alamos Canyon	156
Figure 11.16	TA-16-372 before the Cerro Grande Fire.....	157
Figure 11.17	TA-16-372 after the Cerro Grande Fire.....	157
Figure 12.1	General view looking northwest of a historic foundation at LA 21369B with B. Harmon and J. Nisengard.....	162
Figure 12.2	LA 89826, a Homestead period structure after the Cerro Grande Fire.....	166
Figure 12.3	LA 21298, a Historic period structure after the Cerro Grande Fire.....	167
Figure 12.4	LA 86643, a cabin foundation after the Cerro Grande Fire.....	169
Figure 12.5	LA 86643, B. Harmon at the corral after the Cerro Grande Fire.....	170
Figure 12.6	LA 89769, an artifact scatter after the Cerro Grande Fire.....	171
Figure 12.7	LA 30638, a cistern with associated masonry	173
Figure 12.8	LA 85407, view of cabin remains, facing northeast.....	177
Figure 12.9	LA 131234, Structure C after the Cerro Grande Fire	181
Figure 12.10	LA 131234, A. Madsen at Structure B after the Cerro Grande Fire	181
Figure 12.11	LA 89838, a Historic period rock feature after the Cerro Grande Fire	185
Figure 12.12	LA 131236, stump holes in the site area	189

Tables

Table 3.1	Culture Historical Chronology for the Northern Rio Grande.....	15
Table 6.1	All Assessed Sites	36

Table 6.2	Fire and Non-Fire Related Impacts to Cultural Resources Located within the Burn Area	36
Table 6.3	Burn Severity Based on GIS Coverage Cross-Tabulated with Burn Severity Assessment of the CRMT	36
Table 7.1	All Assessed Sites in ESA by Technical Area	43
Table 7.2	Prehistoric and Temporally Unplaced Sites in ESA that were Directly Impacted by the Cerro Grande Fire	45
Table 7.3	Prehistoric and Temporally Unplaced Sites in ESA with Damage not Related to the Cerro Grande Fire	59
Table 7.4	Prehistoric and Temporally Unplaced Sites with Recommended Treatment in ESA	59
Table 8.1	All Assessed Sites in DX by Technical Area	63
Table 8.2	Prehistoric and Temporally Unplaced Sites in DX that were Directly Impacted by the Cerro Grande Fire	68
Table 8.3	Prehistoric and Temporally Unplaced Sites in DX with Damage not Related to the Cerro Grande Fire	85
Table 8.4	Prehistoric and Temporally Unplaced Sites with Recommended Treatment in DX	88
Table 9.1	All Assessed Sites in FMU-80 by Technical Area	89
Table 9.2	Prehistoric and Temporally Unplaced Sites in FMU-80 that were Directly Impacted by the Cerro Grande Fire	118
Table 9.3	Prehistoric and Temporally Unplaced Sites in FMU-80 with Damage not Related to the Cerro Grande Fire	120
Table 9.4	Prehistoric and Temporally Unplaced Sites with Recommended Treatment in FMU-80	124
Table 10.1	All Assessed Sites in the Rendija Canyon Tract	130
Table 10.2	Prehistoric and Temporally Unplaced Sites Directly Impacted by the Cerro Grande Fire	142
Table 10.3	Prehistoric and Temporally Unplaced Sites in Rendija Canyon with Damage Not Related to the Cerro Grande Fire	142
Table 10.4	Prehistoric and Temporally Unplaced Sites Recommended for Treatment	143
Table 12.1	Homestead Period Sites in ESA Directly Impacted by the Cerro Grande Fire	162
Table 12.2	Homestead Period Sites in DX Directly Impacted by the Cerro Grande Fire	164
Table 12.3	Homestead Period Sites in FMU-80 Directly Impacted by the Cerro Grande Fire	172
Table 12.4	Homestead Period Sites in Rendija Canyon Directly Impacted by the Cerro Grande Fire	176
Table 12.5	Manhattan Project Sites in ESA Directly Impacted by the Cerro Grande Fire	178
Table 12.6	Manhattan Project Sites in DX Directly Impacted by the Cerro Grande Fire	179
Table 12.7	Cold War Period Sites in FMU-80 Directly Impacted by the Cerro Grande Fire	182
Table 12.8	Historic Site of Underdetermined Affiliation in ESA Directly Impacted by the Cerro Grande Fire	183
Table 12.9	Historic Site of Underdetermined Affiliation in DX Directly Impacted by the Cerro Grande Fire	184
Table 12.10	Historic Site of Underdetermined Affiliation in FMU-80 Directly Impacted by the Cerro Grande Fire	186
Table 12.11	Historic Sites in DX with Impacts not Related to the Cerro Grande Fire	187
Table 12.12	Historic Sites in FMU-80 with Impacts not Related to the Cerro Grande Fire	187
Table 12.13	Historic Site in Rendija Canyon with Impacts not Related to the Cerro Grande Fire	188
Table 12.14	Historic Sites with Recommended Treatment in ESA	188
Table 12.14	Historic Sites with Recommended Treatment in DX	188
Table 12.14	Historic Sites with Recommended Treatment in FMU-80	189
Table 12.14	Historic Site with Recommended Treatment in Rendija Canyon	189
Table A.1.1	Dendrochronological Results Associated with LANL Homesteads	211

ACKNOWLEDGMENTS

There are a number of people we would like to thank for helping us complete this report. First, we thank the Department of Energy, National Nuclear Security Administration (DOE/NNSA) for funding the Cerro Grande Fire Assessment Project.

Bruce Masse was the overall project director; he organized teams, maps, and mitigated various problems and issues. In addition, Los Alamos National Laboratory Cultural Resources Management Team (CRMT) archaeologists Steve Hoagland, John Isaacson, Terry Knight, and Brad Vierra and CRMT technician Gerald Martinez were instrumental in assisting us with fieldwork, particularly in restricted areas. The field crews were also incredible; we thank Woody Aguilar, David Barsanti, Diane Curewitz, Mike Dilley, Mike Hannaford, Mike Kennedy, Phil Noll, and John Zahrt for their hard work and dedication.

The Ecology Group (RRES-ECO) Geographic Information System Team was a great help to us, especially Scott Gebhardt and Kathy Bennett.

The Burned Area Emergency Response (BAER) Team Fire Assessment form we used as a starting point for our own form was originally prepared by Bandelier National Monument archaeologists Elizabeth Oster and Mike Elliott. We also appreciate the initial assistance of BAER Team archaeologists Mike Boyton and Chuck James.

The Cultural Resources Assessment Team from the Pueblos of San Ildefonso and Santa Clara, aided by Gerald Martinez, was instrumental in addressing concerns and issues relating to cultural patrimony and in organizing and carrying out rehabilitation efforts at fire impacted sites.

Many thanks to Elizabeth Withers, our DOE/NNSA Los Alamos Site Office National Environmental Policy Act Compliance Officer and Program Manager, for her interest in and support of the CGFA Project. We also thank Steve Mee, Tori George, and the Cerro Grande Rehabilitation Project for their assistance.

The managers and employees of all of the Facility Management Units were helpful in coordinating with us and facilitating our fieldwork within their areas; specifically, we thank Tom Alexander, Yolanda Frazier, Rita Galvin-Prada, Bob Grace, Brad Lounsbury, Julie Roybal, Kathy Smith, Charles Trujillo, and the Radiological Control Technicians at the Dynamic Experimentation Division and the Engineering Sciences and Applications Division.

The encouragement of RRES-ECO management, Ted Doerr, Ken Rea, and Diana Webb, has been wonderful, as has been the leadership of CRMT Team Leader, John Isaacson. We also thank the RRES-ECO administrative staff, specifically Shirley Bustos and Debbie Roybal. Jeanine Wood helped to create Table 6.1. Alycia McLain, Kari Garcia, and Bruce Masse completed last minute editing tasks. This report benefited greatly from the patience and editing talents of Hector Hinojosa and the word processing skills of Teresa Hiteman.

Jennifer Nisengard
Brian Harmon
Kari Schmidt
Alan Madsen

Cerro Grande Fire Assessment Project: An Assessment of the Impact of the Cerro Grande Fire on Cultural Resources at Los Alamos National Laboratory, New Mexico

by

Jennifer E. Nisengard, Brian C. Harmon, Kari M. Schmidt, Alan L. Madsen, W. Bruce Masse,
Ellen D. McGehee, Kari L. M. Garcia, and John Isaacson

ABSTRACT

This report represents nearly two years of the Cerro Grande Fire Assessment (CGFA) Project. The project included the survey and assessment of cultural resources at Los Alamos National Laboratory (LANL), New Mexico, the need for which was brought about by the Cerro Grande Fire in May of 2000.

On May 4, 2000, the National Park Service ignited a controlled burn on the summit of Cerro Grande Peak in the Bandelier National Monument. That night, strong winds blew the fire out of control, and on 5 May the controlled burn was officially declared a wildfire. The town of Los Alamos and surrounding communities were quickly evacuated as the fire moved dangerously close to homes. As wind speeds increased and fire fighters were unable to impede the progress of the fire, it continued to grow and rage uncontrollably. The Cerro Grande Fire was not contained until 6 June, more than one month after it had started.

A total of 47,650 acres was consumed by the Cerro Grande Fire, and more than 200 structures in the town of Los Alamos and 100 structures on LANL land were damaged or destroyed. Also, a wide variety of LANL projects and scientific records were destroyed in the fire. When the fire was finally contained, it had caused more than one billion dollars in damage. Four hundred and eighty archaeological sites, both ancient and historic, were located within the burn area. Cultural Resources Management Team archaeologists assessed 470 of the sites and found fire related damage to 340 of them. This report details the damage to these sites and the subsequent mitigation and rehabilitation resulting from the CGFA Project.

While the causes, nature, chronology, and consequences of the Cerro Grande Fire have been well documented in a number of reports (DOE 2000; LANL 2000, 2001a, 2001b). The impacts of the fire on the cultural resources of LANL and other agencies are just beginning to be understood and summarized (e.g., Masse et al. 2001); our volume is a contribution to this task.

